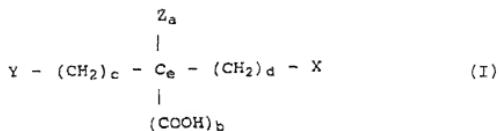


ABSTRACT

5 A NOVEL BIODEGRADABLE LINEAR COPOLYMER, A COMPOSITION
COMPRISING IT, AND USES OF THE COPOLYMER AND
COMPOSITION

10 The object of the invention is a novel copolymer comprising at least two identical or different monomers, the formula of the monomer being as follows (I):



15 in which:

15 a) when X and Y are identical or different, and represent an acid, alcohol, amine or isocyanate group,

20 then at least two monomers have groups able to react together when X and Y are identical, or at least one monomer comprises groups able to react with each other when X and Y are different, and

25 at least one of the monomers has the following characteristics:

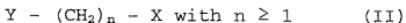
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$$\begin{aligned}a &\geq 1 \\b &\geq 2 \\c + d &\geq 0 \\e &\geq 1\end{aligned}$$

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and Z can be OH, COOH, an alkyl having 1 to 18 carbon atoms, or any other non-reactive group present during the polymerisation process,

10 the other monomers being of the same type or of the following formula (II):



15 b) at least one monomer of each type when X and Y are identical or different, as defined above, are combined so that the stoichiometry of the ratio X / Y, calculated so as to obtain a given molar mass and given extremities, permits an elongation of the carbon-containing chain.

20 The invention also relates to a composition comprising the copolymer and to uses of the copolymer and composition.

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